SPEC® CFP2006 Result

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Dell Inc.

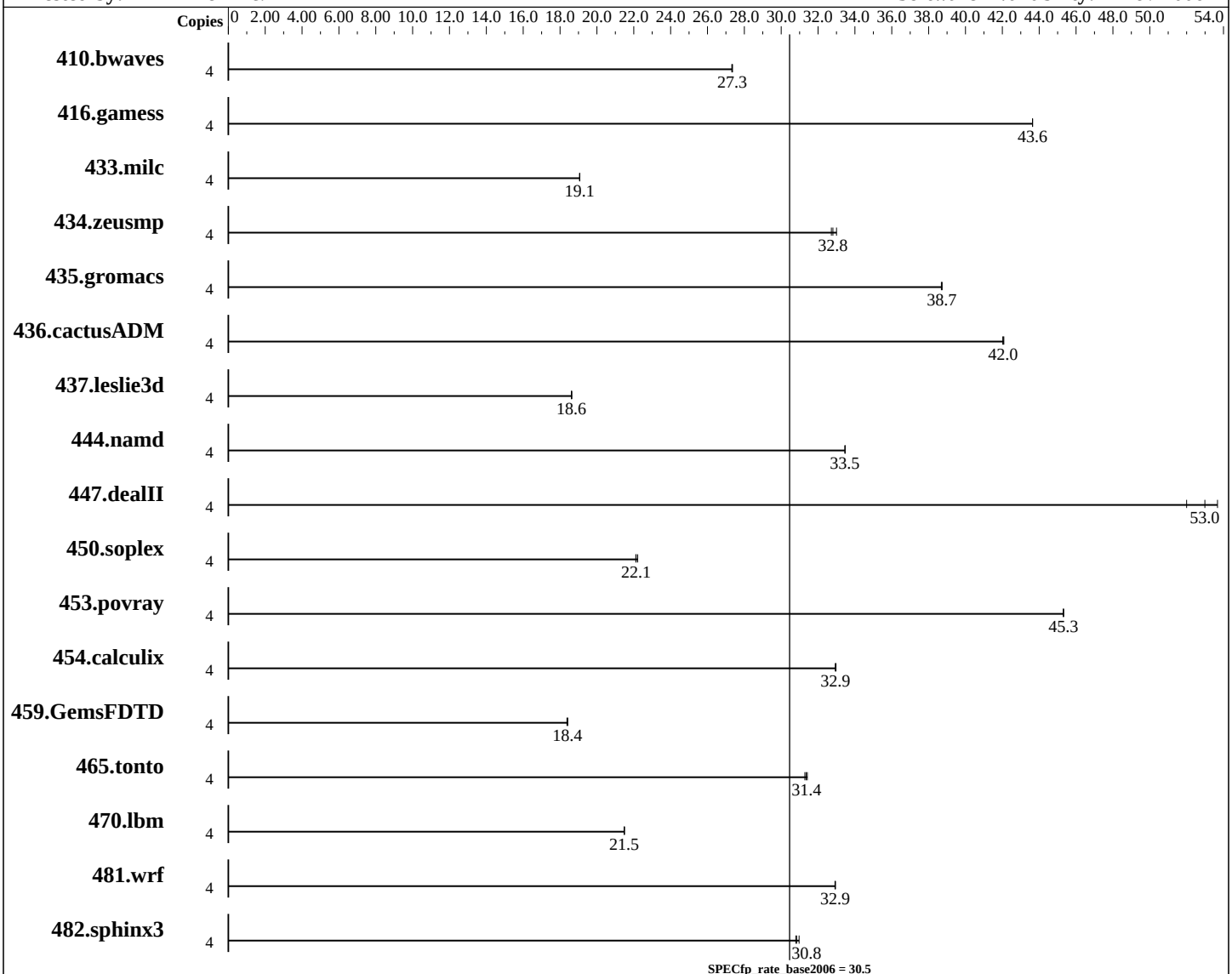
PowerEdge 2900 (Intel Xeon processor 5110, 1.60GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 30.5

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Mar-2007
Hardware Availability: Jul-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon 5110
CPU Characteristics:	1066 MHz Bus Speed
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip

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Software

Operating System:	Red Hat Enterprise Linux 4 Advanced Server Update 3 EM64T kernel 2.6.9-34-smp
Compiler:	Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_cc_c_9.1.045 Build no 20061101 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_fc_c_9.1.040 Build no 20061101
Auto Parallel:	No

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L3 Cache:	None	File System:	ext3
Other Cache:	None	System State:	Run level 3
Memory:	16 GB (8 x 2 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)	Base Pointers:	64-bit
Disk Subsystem:	1 x 73 GB SAS 15k RPM	Peak Pointers:	Not Applicable
Other Hardware:	None	Other Software:	None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1990	27.3	**1988**	**27.3**	1987	27.4							
416.gamess	4	1795	43.6	**1795**	**43.6**	1795	43.6							
433.milc	4	1926	19.1	1926	19.1	**1926**	**19.1**							
434.zeusmp	4	**1110**	**32.8**	1103	33.0	1112	32.7							
435.gromacs	4	738	38.7	738	38.7	**738**	**38.7**							
436.cactusADM	4	1136	42.1	1137	42.0	**1137**	**42.0**							
437.leslie3d	4	**2020**	**18.6**	2017	18.6	2020	18.6							
444.namd	4	959	33.5	**959**	**33.5**	958	33.5							
447.dealII	4	880	52.0	853	53.7	**864**	**53.0**							
450.soplex	4	1502	22.2	1509	22.1	**1507**	**22.1**							
453.povray	4	**470**	**45.3**	470	45.3	470	45.3							
454.calculix	4	**1002**	**32.9**	1002	32.9	1001	33.0							
459.GemsFDTD	4	2310	18.4	2305	18.4	**2305**	**18.4**							
465.tonto	4	**1255**	**31.4**	1253	31.4	1258	31.3							
470.lbm	4	2559	21.5	2557	21.5	**2558**	**21.5**							
481.wrf	4	1356	32.9	1357	32.9	**1357**	**32.9**							
482.sphinx3	4	2517	31.0	**2528**	**30.8**	2532	30.8							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Platform Notes

```
Snoop Filter enabled in BIOS
"ulimit -s unlimited" set
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Continued on next page

Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/hp-ic91-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/hp-ic91-flags.xml

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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